RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

#12

Application Serial Number: _09/701,849_
Source: _1600_
Date Processed by STIC: _6/5/03_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY.**
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. **EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual - ePAVE)**
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
   Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service,** or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

1600

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              RAW SEQUENCE LISTING                    DATE: 06/05/2003
              PATENT APPLICATION:  US/09/701,849      TIME: 15:35:14

              Input Set : A:\EP.txt
              Output Set: N:\CRF4\06052003\I701849.raw

    5 <110> APPLICANT: Genzyme Corporation
    7         Roberts, Bruce L.
    9         Nicolette, Charles A.
   13 <120> TITLE OF INVENTION: Antigen-Specific Cells, Methods of Generating These Cells
and Uses
   14         Thereof
   18 <130> FILE REFERENCE: GA0116C
   22 <140> CURRENT APPLICATION NUMBER: US 09/701,849
   24 <141> CURRENT FILING DATE: 2000-08-09
   28 <150> PRIOR APPLICATION NUMBER: PCT/US99/01462
   30 <151> PRIOR FILING DATE: 1999-01-25
   34 <150> PRIOR APPLICATION NUMBER: US 60/122,053
   36 <151> PRIOR FILING DATE: 1998-01-26
   40 <150> PRIOR APPLICATION NUMBER: US 60/080,036
   42 <151> PRIOR FILING DATE: 1998-03-31
   46 <160> NUMBER OF SEQ ID NOS: 11
   50 <170> SOFTWARE: PatentIn version 3.1
   54 <210> SEQ ID NO: 1
   56 <211> LENGTH: 8
   58 <212> TYPE: PRT
   60 <213> ORGANISM: synthetic oligopeptide
   64 <220> FEATURE:
   66 <221> NAME/KEY: PEPTIDE
   68 <222> LOCATION: (1)..(8)
   70 <223> OTHER INFORMATION:
   74 <220> FEATURE:
   76 <221> NAME/KEY: MISC_FEATURE
   78 <222> LOCATION: (2)..(2)
   80 <223> OTHER INFORMATION: X = Any amino acid residue
W--> 84 <220>
   86 <221> NAME/KEY: MISC_FEATURE
   88 <222> LOCATION: (3)..(3)
   90 <223> OTHER INFORMATION: X = Any amino acid residue
   94 <220> FEATURE:
   96 <221> NAME/KEY: MISC_FEATURE
   98 <222> LOCATION: (4)..(4)
  100 <223> OTHER INFORMATION: X = Any amino acid residue
  104 <220> FEATURE:
  106 <221> NAME/KEY: MISC_FEATURE
  108 <222> LOCATION: (5)..(5)
  110 <223> OTHER INFORMATION: X = Any amino acid residue
  114 <220> FEATURE:
  116 <221> NAME/KEY: MISC_FEATURE
  118 <222> LOCATION: (6)..(6)
```

invalid response, see error summary sheet item 10

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING   DATE: 06/05/2003
PATENT APPLICATION: US/09/701,849 TIME: 15:35:14

Input Set : **A:\EP.txt**
Output Set: **N:\CRF4\06052003\I701849.raw**

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     120 <223> OTHER INFORMATION: X = Any amino acid residue
     124 <220> FEATURE:
     126 <221> NAME/KEY: MISC_FEATURE
     128 <222> LOCATION: (7)..(7)
     130 <223> OTHER INFORMATION: X = Any amino acid residue
     134 <400> SEQUENCE: 1
W--> 136 Leu Xaa Xaa Xaa Xaa Xaa Xaa Val
     137 1               5
     140 <210> SEQ ID NO: 2
     142 <211> LENGTH: 8
     144 <212> TYPE: PRT
     146 <213> ORGANISM: synthetic oligopeptide
     150 <220> FEATURE:
     152 <221> NAME/KEY: PEPTIDE
     154 <222> LOCATION: (1)..(8)
     156 <223> OTHER INFORMATION:
     160 <220> FEATURE:
     162 <221> NAME/KEY: MISC_FEATURE
     164 <222> LOCATION: (2)..(2)
     166 <223> OTHER INFORMATION: X = Any amino acid residue
W--> 170 <220>
     172 <221> NAME/KEY: MISC_FEATURE
     174 <222> LOCATION: (3)..(3)
     176 <223> OTHER INFORMATION: X = Any amino acid residue
     180 <220> FEATURE:
     182 <221> NAME/KEY: MISC_FEATURE
     184 <222> LOCATION: (4)..(4)
     186 <223> OTHER INFORMATION: X = Any amino acid residue
     190 <220> FEATURE:
     192 <221> NAME/KEY: MISC_FEATURE
     194 <222> LOCATION: (5)..(5)
     196 <223> OTHER INFORMATION: X = Any amino acid residue
     200 <220> FEATURE:
     202 <221> NAME/KEY: MISC_FEATURE
     204 <222> LOCATION: (6)..(6)
     206 <223> OTHER INFORMATION: X = Any amino acid residue
     210 <220> FEATURE:
     212 <221> NAME/KEY: MISC_FEATURE
     214 <222> LOCATION: (7)..(7)
     216 <223> OTHER INFORMATION: X = Any amino acid residue
     220 <220> FEATURE:
     222 <221> NAME/KEY: MISC_FEATURE
     224 <222> LOCATION: (8)..(8)
     226 <223> OTHER INFORMATION: X = Any positively charged amino acid residue
     230 <400> SEQUENCE: 2
W--> 232 Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     233 1               5
     236 <210> SEQ ID NO: 3
     238 <211> LENGTH: 9
```

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                    RAW SEQUENCE LISTING              DATE: 06/05/2003
                    PATENT APPLICATION:  US/09/701,849   TIME: 15:35:14

                    Input Set : A:\EP.txt
                    Output Set: N:\CRF4\06052003\I701849.raw

    240 <212> TYPE: PRT
    242 <213> ORGANISM: synthetic oligopeptide
    246 <220> FEATURE:
    248 <221> NAME/KEY: PEPTIDE
    250 <222> LOCATION: (1)..(9)
    252 <223> OTHER INFORMATION:
    256 <220> FEATURE:
    258 <221> NAME/KEY: MISC_FEATURE
    260 <222> LOCATION: (1)..(1)
    262 <223> OTHER INFORMATION: X = Any amino acid residue
W--> 266 <220>
    268 <221> NAME/KEY: MISC_FEATURE
    270 <222> LOCATION: (2)..(2)
    272 <223> OTHER INFORMATION: X = Asp or Glu.
    276 <220> FEATURE:
    278 <221> NAME/KEY: MISC_FEATURE
    280 <222> LOCATION: (3)..(3)
    282 <223> OTHER INFORMATION: X = Any amino acid residue
    286 <220> FEATURE:
    288 <221> NAME/KEY: MISC_FEATURE
    290 <222> LOCATION: (4)..(4)
    292 <223> OTHER INFORMATION: X = Any amino acid residue
    296 <220> FEATURE:
    298 <221> NAME/KEY: MISC_FEATURE
    300 <222> LOCATION: (5)..(5)
    302 <223> OTHER INFORMATION: X = Any amino acid residue
    306 <220> FEATURE:
    308 <221> NAME/KEY: MISC_FEATURE
    310 <222> LOCATION: (6)..(6)
    312 <223> OTHER INFORMATION: X = Any amino acid residue
    316 <220> FEATURE:
    318 <221> NAME/KEY: MISC_FEATURE
    320 <222> LOCATION: (7)..(7)
    322 <223> OTHER INFORMATION: X = Any amino acid residue
    326 <220> FEATURE:
    328 <221> NAME/KEY: MISC_FEATURE
    330 <222> LOCATION: (8)..(8)
    332 <223> OTHER INFORMATION: X = Any amino acid residue
    336 <220> FEATURE:
    338 <221> NAME/KEY: MISC_FEATURE
    340 <222> LOCATION: (9)..(9)
    342 <223> OTHER INFORMATION: X = Phe, Lys or Tyr.
    346 <400> SEQUENCE: 3
W--> 348 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
    349 1               5
    352 <210> SEQ ID NO: 4
    354 <211> LENGTH: 8
    356 <212> TYPE: PRT
    358 <213> ORGANISM: synthetic oligopeptide
```

```
            RAW SEQUENCE LISTING              DATE: 06/05/2003
            PATENT APPLICATION:  US/09/701,849   TIME: 15:35:14

            Input Set : A:\EP.txt
            Output Set: N:\CRF4\06052003\I701849.raw

    362 <220> FEATURE:
    364 <221> NAME/KEY: PEPTIDE
    366 <222> LOCATION: (1)..(8)
    368 <223> OTHER INFORMATION:
    372 <220> FEATURE:
    374 <221> NAME/KEY: MISC_FEATURE
    376 <222> LOCATION: (2)..(2)
    378 <223> OTHER INFORMATION: X = Any amino acid residue
W--> 382 <220>
    384 <221> NAME/KEY: MISC_FEATURE
    386 <222> LOCATION: (3)..(3)
    388 <223> OTHER INFORMATION: X = Any amino acid residue
    392 <220> FEATURE:
    394 <221> NAME/KEY: MISC_FEATURE
    396 <222> LOCATION: (4)..(4)
    398 <223> OTHER INFORMATION: X = Any amino acid residue
    402 <220> FEATURE:
    404 <221> NAME/KEY: MISC_FEATURE
    406 <222> LOCATION: (5)..(5)
    408 <223> OTHER INFORMATION: X = Any amino acid residue
    412 <220> FEATURE:
    414 <221> NAME/KEY: MISC_FEATURE
    416 <222> LOCATION: (6)..(6)
    418 <223> OTHER INFORMATION: X = Any amino acid residue
    422 <220> FEATURE:
    424 <221> NAME/KEY: MISC_FEATURE
    426 <222> LOCATION: (7)..(7)
    428 <223> OTHER INFORMATION: X = Any amino acid residue
    432 <400> SEQUENCE: 4
W--> 434 Arg Xaa Xaa Xaa Xaa Xaa Xaa Leu
    435 1                   5
    438 <210> SEQ ID NO: 5
    440 <211> LENGTH: 8
    442 <212> TYPE: PRT
    444 <213> ORGANISM: (synthetic oligopeptide)
    448 <220> FEATURE:
    450 <221> NAME/KEY: PEPTIDE
    452 <222> LOCATION: (1)..(8)
    454 <223> OTHER INFORMATION:
    458 <220> FEATURE:
    460 <221> NAME/KEY: MISC_FEATURE
    462 <222> LOCATION: (1)..(1)
    464 <223> OTHER INFORMATION: X = Any amino acid residue
W--> 468 <220>
    470 <221> NAME/KEY: MISC_FEATURE
    472 <222> LOCATION: (2)..(2)
    474 <223> OTHER INFORMATION: X = Lys or Arg.
    478 <220> FEATURE:
    480 <221> NAME/KEY: MISC_FEATURE
```

```
                 RAW SEQUENCE LISTING                DATE: 06/05/2003
                 PATENT APPLICATION:  US/09/701,849  TIME: 15:35:14

                 Input Set : A:\EP.txt
                 Output Set: N:\CRF4\06052003\I701849.raw

   482 <222> LOCATION: (3)..(3)
   484 <223> OTHER INFORMATION: X = Any amino acid residue
   488 <220> FEATURE:
   490 <221> NAME/KEY: MISC_FEATURE
   492 <222> LOCATION: (4)..(4)
   494 <223> OTHER INFORMATION: X = Any amino acid residue
   498 <220> FEATURE:
   500 <221> NAME/KEY: MISC_FEATURE
   502 <222> LOCATION: (5)..(5)
   504 <223> OTHER INFORMATION: X = Any amino acid residue
   508 <220> FEATURE:
   510 <221> NAME/KEY: MISC_FEATURE
   512 <222> LOCATION: (6)..(6)
   514 <223> OTHER INFORMATION: X = Any amino acid residue
   518 <220> FEATURE:
   520 <221> NAME/KEY: MISC_FEATURE
   522 <222> LOCATION: (7)..(7)
   524 <223> OTHER INFORMATION: X = Any amino acid residue
   528 <220> FEATURE:
   530 <221> NAME/KEY: MISC_FEATURE
   532 <222> LOCATION: (8)..(8)
   534 <223> OTHER INFORMATION: X = Leu or Ile.
   538 <400> SEQUENCE: 5
W--> 540 Xaa Xaa Xaa Xaa Xaa  Xaa Xaa Xaa Xaa
   541 1               5
   544 <210> SEQ ID NO: 6
   546 <211> LENGTH: 8
   548 <212> TYPE: PRT
   550 <213> ORGANISM: Synthetic oligopeptide
   554 <220> FEATURE:
   556 <221> NAME/KEY: PEPTIDE
   558 <222> LOCATION: (1)..(8)
   560 <223> OTHER INFORMATION:
   564 <220> FEATURE:
   566 <221> NAME/KEY: MISC_FEATURE
   568 <222> LOCATION: (1)..(1)
   570 <223> OTHER INFORMATION: X = Met or Leu.
W--> 574 <220>
   576 <221> NAME/KEY: MISC_FEATURE
   578 <222> LOCATION: (2)..(2)
   580 <223> OTHER INFORMATION: X = Any amino acid residue
   584 <220> FEATURE:
   586 <221> NAME/KEY: MISC_FEATURE
   588 <222> LOCATION: (3)..(3)
   590 <223> OTHER INFORMATION: X = Any amino acid residue
   594 <220> FEATURE:
   596 <221> NAME/KEY: MISC_FEATURE
   598 <222> LOCATION: (4)..(4)
   600 <223> OTHER INFORMATION: X = Any amino acid residue
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 06/05/2003
PATENT APPLICATION: **US/09/701,849**   TIME: 15:35:15

Input Set : **A:\EP.txt**
Output Set: **N:\CRF4\06052003\I701849.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 2,3,4,5,6,7
Seq#:2; Xaa Pos. 2,3,4,5,6,7,8
Seq#:3; Xaa Pos. 1,2,3,4,5,6,7,8,9
Seq#:4; Xaa Pos. 2,3,4,5,6,7
Seq#:5; Xaa Pos. 1,2,3,4,5,6,7,8
Seq#:6; Xaa Pos. 1,2,3,4,5,6,7
Seq#:7; Xaa Pos. 2,3,4,5,6,7,8
Seq#:8; Xaa Pos. 1,3,4,5,6,7,8
Seq#:9; Xaa Pos. 1,2,3,4,5,6,7
Seq#:11; Xaa Pos. 1,2,4,5,6,7

VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/701,849**

DATE: 06/05/2003
TIME: 15:35:15

Input Set : **A:\EP.txt**
Output Set: **N:\CRF4\06052003\I701849.raw**

```
L:84  M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:70
L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:170 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:2,Line#:156
L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:266 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:252
L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:382 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:4,Line#:368
L:434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:468 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:454
L:540 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:574 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:6,Line#:560
L:636 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:670 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:7,Line#:656
L:732 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:766 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:8,Line#:752
L:828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:862 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:9,Line#:848
L:924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:948 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:10,Line#:944
L:984 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11,Line#:970
L:1036 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
```